

Work Order ID 52631

October 5, 2009 10:05:57 AM

Page 1

Item ID: D3140-89

Revision ID: F

Item Name: Doubler

Start Date: 10/05/09 Start Qty: 2.00

Required Date: 10/09/09 Req'd Qty: 2.00

Reference:

Approvals: Process Plan: *CL*

Date: 09/10/05 Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

D3140

Rev F

100

0.00



FLOW WATER JET

Waterjet

Memo

0.00

FLOW CNC Waterjet

1-Cut as per Dwg D3140

Dwg Rev: *F*

Prog Rev: *F*

2-Deburr if necessary

B 9-10-5

110

0.00



QC2- Inspect parts off machine FAI/FAIB

QC

Memo

0.00

Quality Control

B 9-10-5

120

0.00



QC8- Inspect parts - second check

QC

Memo

0.00

Quality Control

⇒ 8/21/09

(42)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 52631

October 5, 2009 10:05:57 AM

Page 2

Item ID: D3140-89

Accept

Setup Start

Revision ID: F

Stop

Item Name: Doubler

Start Date: 10/05/09 Start Qty: 2.00

Cust Item ID:

Required Date: 10/09/09 Req'd Qty: 2.00

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

130

0.00



Small Fab

Small Fab

Memo

0.00

Small Fab

1-Scuff surfaces with 80grit sandpaper per QSI 006
2-Deburr.
No sharp edges

M. L. 09/10/05

(2N)

140

0.00



QC5- Inspect part completeness to step on W/O

QC

Memo

0.00

Quality Control

2/8/06

(2) /

150

0.00



Chemical Conversion Coat per QSI005 4.1

HandFinish

Memo

0.00

Hand Finishing

mb 09/16/06

X2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 52631

October 5, 2009 10:05:57 AM

Page 3

Item ID: D3140-89

Accept

Revision ID: F

Item Name: Doubler

Start Date: 10/05/09 Start Qty: 2.00

Required Date: 10/09/09 Req'd Qty: 2.00

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

QC:

Date:

SPC (Y/N):

Date:

Run Start

Stop

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Draw
Number

Draw
Rev.

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

160

QC3- Inspect Part Finish

0.00

0.00

QC

Memo

Quality Control

170

Identify as per dwg & Stock Location: GA

0.00

0.00

Packaging

Memo

Packaging

180

QC21- Final Inspection - Work Order Release

0.00

0.00

QC

Memo

Quality Control



Cust Item ID:

Customer:



BL 09-10-6

2

D3140-09

B 52633

09/10/06

2

09/10/06

MF 09-10-06

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

October 5, 2009 10:05:56 AM

Work Order ID: 52631



Parent Item: D3140-89RevF

Parent Item Name: Doubler

Start Date: 10/05/09

Required Date: 10/09/09

Comments:

Start Qty: 2.00

Required Qty: 2.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
M2024T3S.032		Purchased	No			100	sf	78.4179	3.4947			



2024-T3 .032 sheet

B9-10-5

<u>Warehouse</u>	<u>Loc Qty</u>	<u>Loc Code</u>
<u>Location</u>		
Main Warehouse		
MAT	78.41793158	
102942	1.5	
105555	4.0684	
106272	5.3	
108595	1.2	
109240	7.02	
110778	21.9106316	
111699	34.4189	
18147	3	

111 699

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART

DESIGN #	DRAWN BY CB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED JH	APPROVED JH	DRAWING NO. D3140	REV. F SHEET 1 OF 7
DATE 06.10.06		TITLE DOOR	SCALE NTS
A	02.04.18	NEW ISSUE	
B	03.01.23	REMOVE -65/-81/-83; ADD -301/-303	
C	04.11.08	CHANGE DELASTEK SPEC. TEC-77; ADD PART MARKING; ADD NOTES 11, 12, 13; CHANGE ANGLE -95/-97/-98 TO 106°	
D	05.11.23	ADD -103/-104/-105/-106; REMOVE -67	
E	06.06.09	1.75 WAS 1.88, 4.75 WAS 4.13 ON -08/-07, 1.00 WAS 1.20 ON -09/-10	
F	06.10.06	ADD NOTE 14; CORRECT PART TITLE, NOW D3140-09/-92/-104 SHOWN D3140-10/-91/-103 OPPOSITE	

RELEASED

06.11.13

QTY -05	QTY -06	QTY -07	QTY -08	QTY -09	QTY -10	PART NUMBER	DESCRIPTION
X						D3140-05	DOOR
	X					D3140-06	DOOR
		X				D3140-07	DOOR
			X			D3140-08	DOOR
		1		X		D3140-09	DOUBLER ASSEMBLY
			1		X	D3140-10	DOUBLER ASSEMBLY
3	3					D3140-57	PAD
1	1					D3140-59	PAD
2	2					D3140-61	PAD
2	2					D3140-63	PAD
		1	1			D3140-69	PAD
		1	1			D3140-71	PAD
		1	1			D3140-73	PAD
		1	1			D3140-75	PAD
		1	1			D3140-77	PAD
		1	1			D3140-79	PAD
				1	1	D3140-85	ANGLE
1	1					D3140-87	DOUBLER
				1	1	D3140-89	DOUBLER
		1				D3140-91	DOUBLER
			1			D3140-92	DOUBLER
3	3					D3140-95	DOUBLER
1						D3140-97	DOUBLER
	1					D3140-98	DOUBLER
		1	1			D3140-99	DOUBLER
		2	2			D3140-101	DOUBLER
		1				D3140-103	DOUBLER
			1			D3140-104	DOUBLER
		1				D3140-105	DOUBLER
			1			D3140-106	DOUBLER
1	1					D3140-241	DOUBLER
1		1				D3140-301	DOUBLER
	1		1			D3140-303	DOUBLER
				5	5	MS20426AD3-4	RIVET

50911005
13925.0/m

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DESIGN #	DRAWN BY CB	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED JH	APPROVED #	DRAWING NO. D3140	REV. F SHEET 2 OF 7
DATE 06.10.06		TITLE DOOR	SCALE NTS

1

COMPOSITE LAYUP & BONDING I.A.W. DELASTEK PROCESS SPEC. TEC-77
MATERIAL STORAGE & HANDLING TO BE I.A.W. DART QSI 006
MAIN LAYUP USES FIBERCOTE E-761/7781 EPOXY FIBERGLASS.
FILL WITH EPOCAST 87269 OR MAGNOBOND 77 A & B AND MA560 FOAM/ NB-51/30 FOAM

2

FINISH: DUPONT HIGHBUILD GREY PRIMER 1144-S

3

MAKE PARTS IN ACCORDANCE WITH THE FOLLOWING TOOLS/MOLDS:

PART	TOOL
D3140-05	B30-23000-01T
D3140-06	B30-23000-02T
D3140-07	B30-23000-03T
D3140-08	B30-23000-04T
D3140-57	B30-23000-57T
D3140-61	B30-23000-61T
D3140-63	B30-23000-63T
D3140-69	B30-23000-69T
D3140-71	B30-23000-71T
D3140-73	B30-23000-73T
D3140-75	B30-23000-75T
D3140-77	B30-23000-77T
D3140-79	B30-23000-79T
D3140-89	D3140-89T1
D3140-301	D3140-301T1
D3140-303	D3140-303T1

RELEASED

06.11.13

4

MATERIAL: 2024-T3 (QQ-A-250/4) 0.032 THICK (M2024T3S.032)
FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

5

MATERIAL: 2024-T3 (QQ-A-250/4) 0.020 THICK (M2024T3S.020)
FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

6

MATERIAL: 5052-H32/H34 (QQ-A-250/8) 0.040 THICK (M5052H32S.040)
FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

7

MATERIAL: POLIMEX TR75 1" THICK 4.5 LB KLEGECELL

8

ALL DIMENSIONS IN INCHES

9

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

10

MATERIAL: 6061-T6 (QQ-A-250/11) 0.063 THICK (M6061-T6S.063)
FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

11

DOUBLER TO SIT ON TOP OF FOAM AT THIS LOCATION

12

DOUBLER TO BE RECESSED FLUSH INTO FOAM AT THIS LOCATION

13

RUBBER STAMP WITH DART P/N D3140-05/-06/-07/-08 USING MIL-STD-130

14

PARTS MUST BE SCUFFED WITH 80 GRIT SANDPAPER PRIOR TO ACID ETCH AND
ALODINE PER DART QSI 005 4.1



C209/10/05
W10.52631

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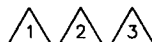
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SECTION B-B

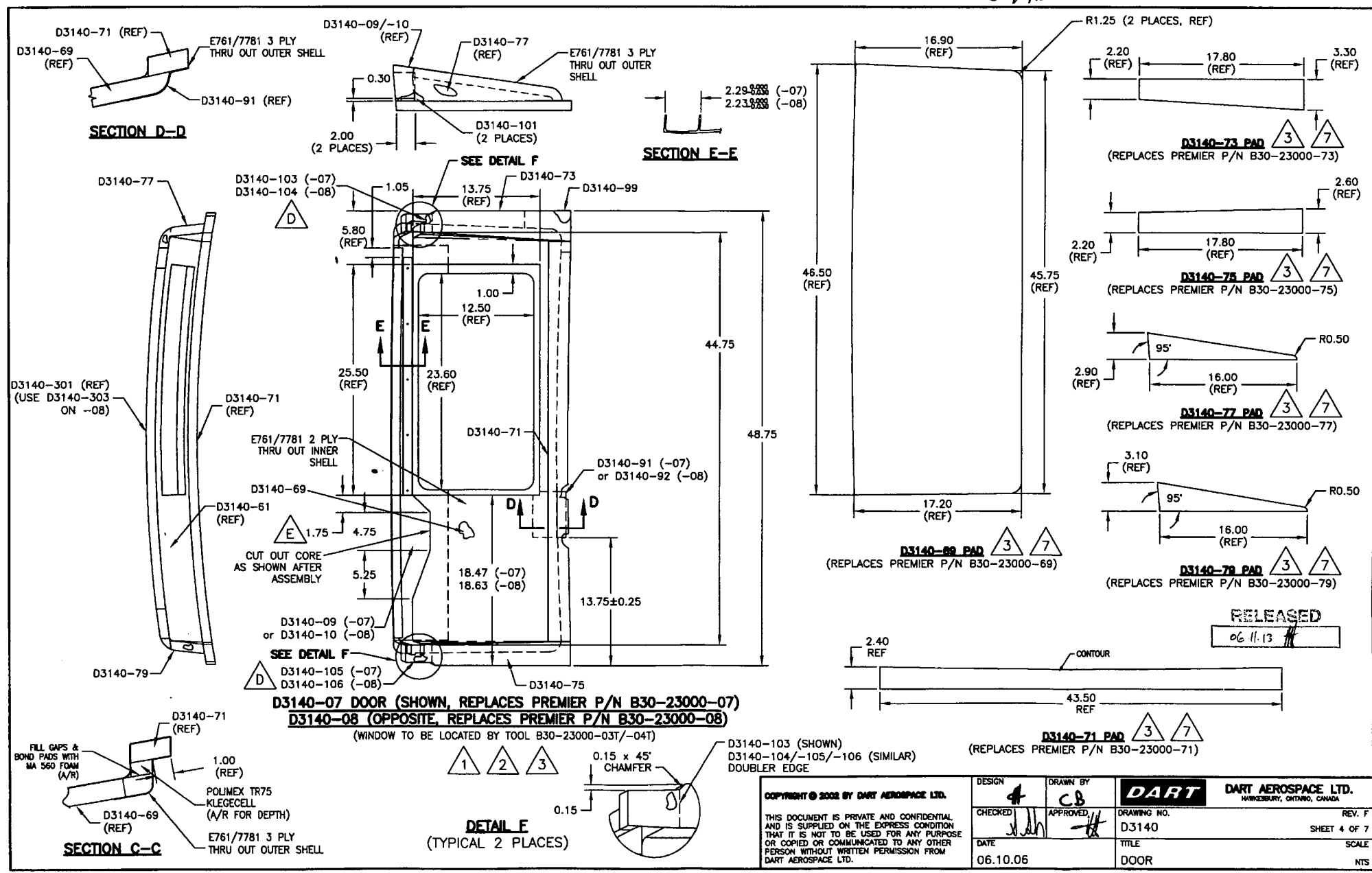
D3140-05 DOOR (SHOWN, REPLACES PREMIER P/N B30-23000-05)
D3140-06 DOOR (OPPOSITE, REPLACES PREMIER P/N B30-23000-06)
 (WINDOWS & CUTOUTS TO BE LOCATED PER B30-23000-01T/-02T TOOL)



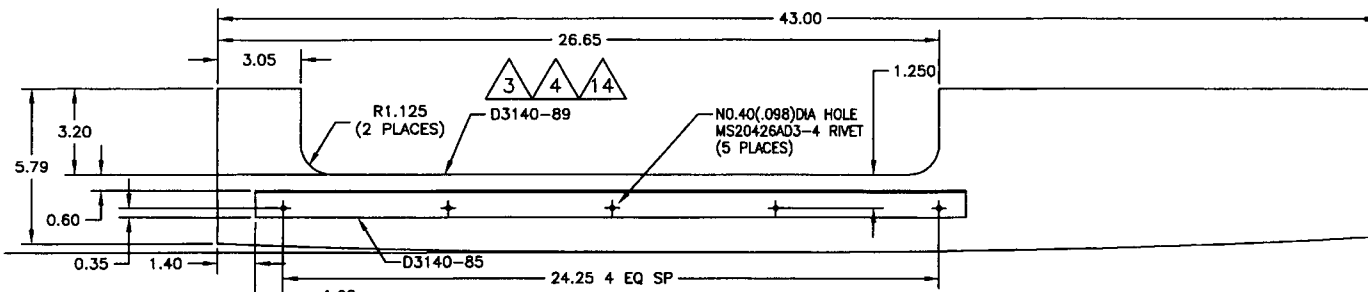
SCALE

NTS

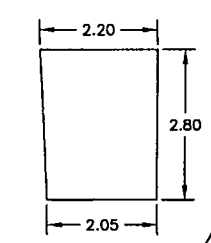
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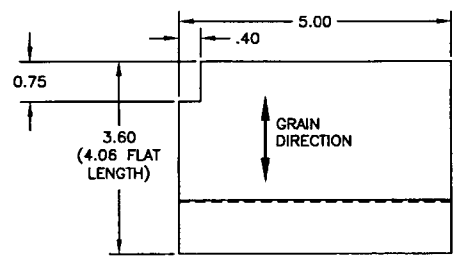
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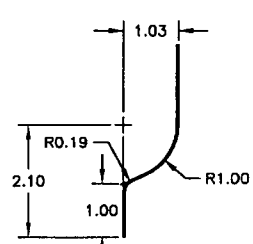
D3140-09 DOUBLER ASSEMBLY (SHOWN, REPLACES PREMIER P/N B30-23000-09)
D3140-10 DOUBLER ASSEMBLY (OPPOSITE, REPLACES PREMIER P/N B30-23000-10)



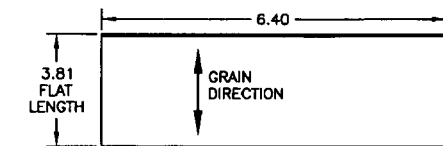
D3140-101 DOUBLER (REPLACES PREMIER P/N B30-23000-101)



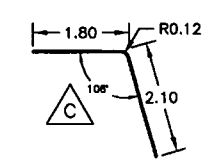
D3140-91F FLAT PATTERN
 (USE TO MAKE D3140-91/-92 DOUBLERS)



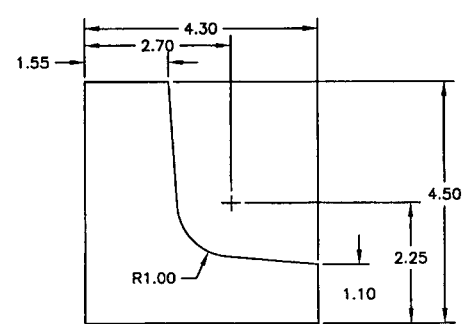
D3140-92 DOUBLER (SHOWN, REPLACES PREMIER P/N B30-23000-92)
D3140-91 DOUBLER (OPPOSITE, REPLACES PREMIER P/N B30-23000-91)



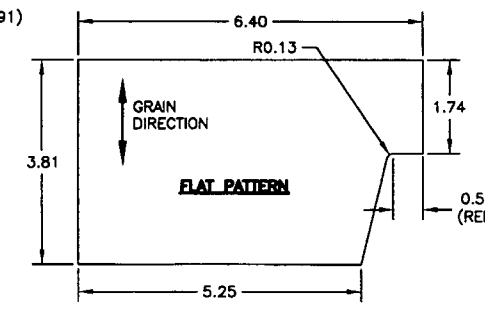
D3140-95 DOUBLER (REPLACES PREMIER P/N B30-23000-95)



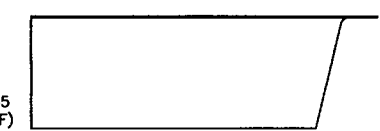
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 06.11.13



D3140-99 DOUBLER (REPLACES PREMIER P/N B30-23000-99)



D3140-97F FLAT PATTERN
 (USE TO MAKE D3140-97/-98 DOUBLERS)

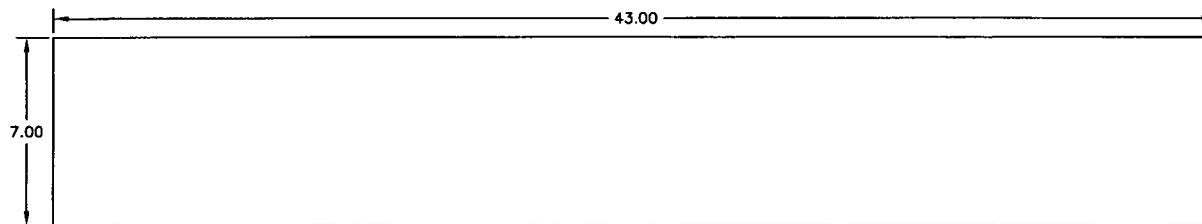


BEND DETAIL

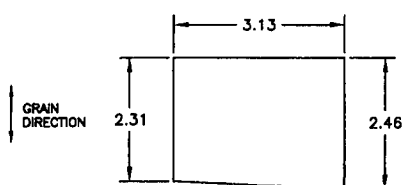
D3140-97 DOUBLER (SHOWN, REPLACES PREMIER P/N B30-23000-97)
D3140-98 DOUBLER (OPPOSITE, REPLACES PREMIER P/N B30-23000-98)

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		06.10.06		TITLE	SCALE
				DOOR	NTS

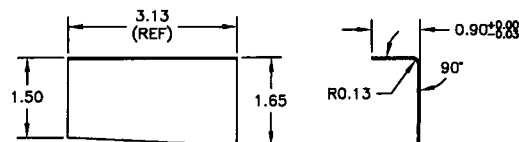
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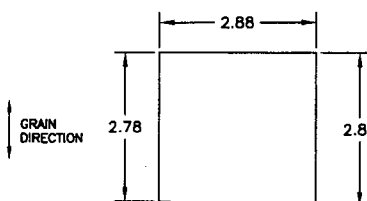
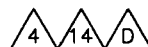
D3140-87 DOUBLER $\triangle 4 \triangle 14$
(REPLACES PREMIER P/N B30-23000-87)



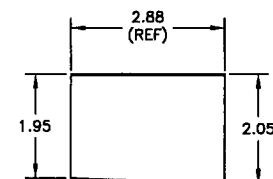
D3140-105F FLAT PATTERN
(USED TO MAKE D3140-105/-106 BRACKETS)



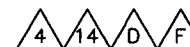
D3140-105 DOUBLER
(REF)
D3140-106 OPPOSITE



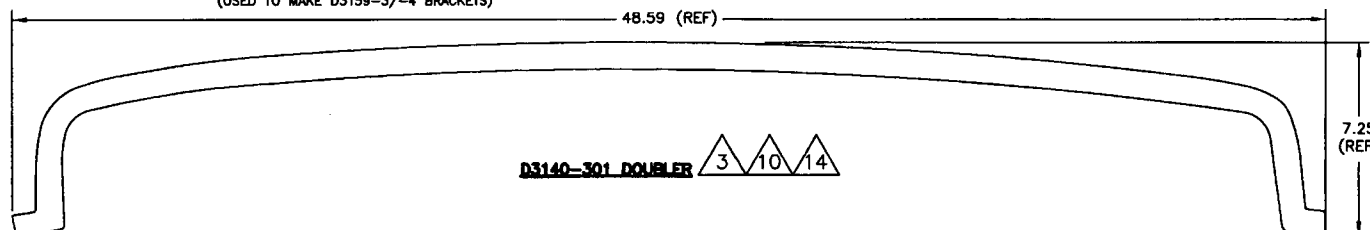
D3140-103F FLAT PATTERN
(USED TO MAKE D3140-103/-104 BRACKETS)



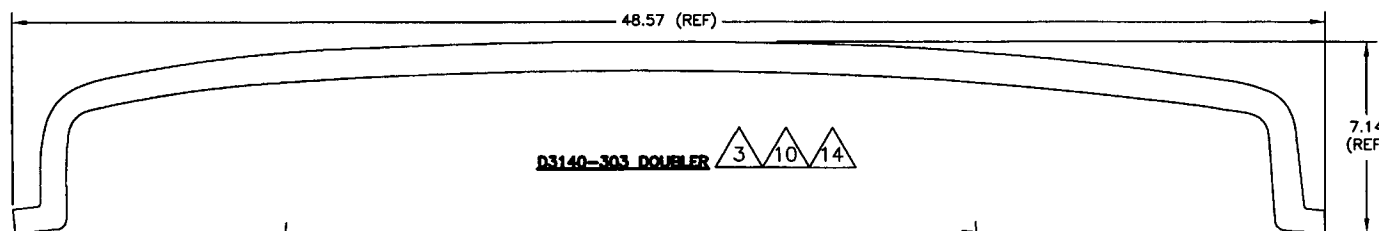
D3140-104 DOUBLER
D3140-103 OPPOSITE



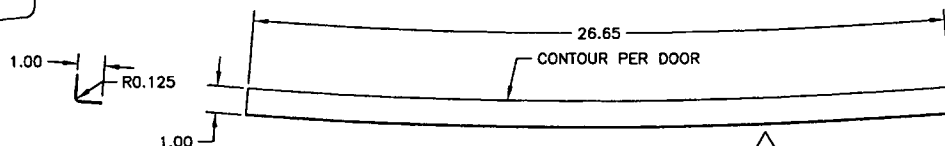
D3159-3F FLAT PATTERN
(USED TO MAKE D3159-3/-4 BRACKETS)



D3140-301 DOUBLER $\triangle 3 \triangle 10 \triangle 14$



D3140-303 DOUBLER $\triangle 3 \triangle 10 \triangle 14$



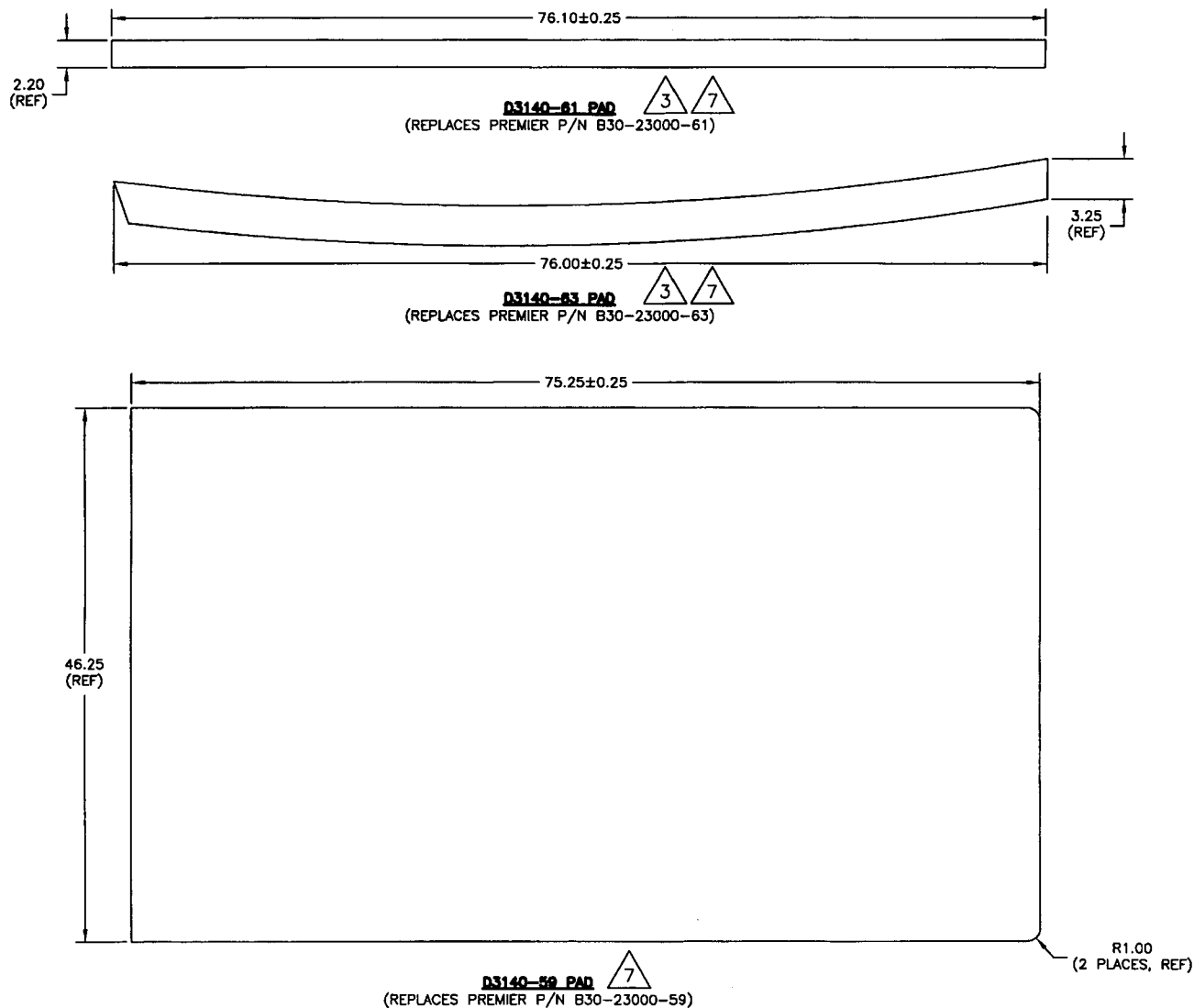
D3140-85 ANGLE $\triangle 6$
FLAT PATTERN: 26.65" x 1.90"
(REPLACES PREMIER P/N B30-23000-85)

RELEASED

21.13

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		DATE	06.10.06		TITLE	DOOR	SCALE
							NTS

W/O: 52631
50/01/10/05



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06.11.13

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		DATE		DRAWING NO.	REV. F
		06.10.06		D3140	SHEET 7 OF 7
				TITLE	SCALE
				DOOR	NTS